IN THE CLAIMS

1. (original) A surgical tether for orthopedic treatment to secure to two adjacent bone

portions, said tether comprising:

a cord having a tensile strength sufficient to maintain a desired distance or orientation of

the two bone portions;

a first sheath substantially encasing the cord, said first sheath comprising a plurality of

fibers and providing an abrasion resistant coating to the cord;

a radiopaque element; and

optionally, a second sheath, said second sheath substantially encasing the first sheath.

2. (previously presented) The tether of claim 1 wherein the cord is slidably received

within the second outer sheath.

3. (original) The tether of claim 1 wherein the cord is elongate and defines a

longitudinal axis and wherein the cord is free to move longitudinally with respect to the first

sheath.

4. (previously presented) The tether of claim 1 wherein the first and second sheaths are

frictionally engaged with each other.

5. (original) The tether of claim 1 wherein the cord consists of a single fiber.

6. (original) The tether of claim 1 wherein the cord comprises a plurality of fibers.

7. (original) The tether of claim 6 wherein the plurality of fibers are braided to provide

the cord.

8. (original) The tether of claim 7 wherein the radiopaque element comprises a single

radiopaque filament woven in the plurality of fibers.

9. (previously presented) The tether of claim 6 wherein the plurality of fibers are

braided to provide the first sheath.

10. (original) The tether of claim 1 wherein the radiopaque element comprises barium

sulfate.

11. (original) The tether of claim 1 wherein the first sheath comprises a radiopaque

element.

12. (original) The tether of claim 1 wherein the radiopaque element comprises a single

radiopaque filament woven in the plurality of filaments.

13. (original) The tether of claim 1 wherein the radiopaque element comprises a

plurality of radiopaque filaments.

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14. (previously presented) The tether of claim 1 wherein the radiopaque element

comprises one or more radiopaque filaments spirally wound around at least one of the cord, the

first sheath, or the second sheath.

15. (original) The spinal tether of claim 1 comprising the optional second sheath

substantially encasing the first sheath wherein second sheath is not fixedly secured to either the

cord or the first sheath.

16. (original) The tether of claim 15 wherein the second sheath comprises a plurality of

braided fibers.

17. (original) The tether of claim 15 wherein the radiopaque fiber is embedded within

the second sheath.

18. (previously presented) The tether of claim 1 wherein the cord is elongate and defines

a longitudinal direction and the second sheath is free to move longitudinally with respect to the

first sheath or the cord.

19. (original) The tether of claim 1 wherein the tether is attached to a plurality of bone

portions.

20. (original) The tether of claim 1 wherein the cord or the first sheath or both are

composed of an elastomeric material.

21. (currently amended) The tether of claim 1 wherein said tether secures to at least the

two bone portions include a first and second vertebrae.

22. (currently amended) The tether of claim 1 wherein said tether secures to at least the

two bone portions include an articulating joint.

23. (original) The tether of claim 1 wherein the cord and the first sheath are flexible.

24. (original) The tether of claim 1 wherein the cord is composed of a polymeric

material selected from the group consisting of: polyethylene, ultra high molecular weight

polyethylene, polypropylene, fluoropolymers, polytetrafluoroethylene, polyamides, polyethylene

terephthalate, polyesters, polyaramid, silicon rubbers, polyurethane, polyvinylchloride.

25. (original) The tether of claim 24 wherein the first sheath is composed of a material

different from the cord.

26. (original) The tether of claim 25 wherein the first sheath is composed of a material

selected from the group consisting of: polyethylene, polypropylene, fluoropolymers,

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polytetrafluoroethylene, polyamides, polyethylene terephthalate, polyesters, polyaramid, silicon

rubbers, polyurethane, polyvinylchloride.

27. (original) The tether of claim 1 wherein the cord and first sheath are composed of a

biodegradable material.

28. (original) The tether of claim 1 wherein the cord and first sheath are composed of a

non-biodegradable material.

29. (original) The tether of claim 1 comprising a first bone fastener and a second bone

fastener to secure the tether to the two bone portions.

30. (original) The tether of claim 29 wherein the first and second bone fasteners secure

the cord to the first and second bone portions.

31. (original) The tether of claim 30 wherein the first sheath is not secured to the two

bone portions.

32. (original) The tether of claim 30 comprising the second sheath and wherein the

second sheath is not secured to the two or more bone portions.

33. (original) The tether of claim 1 wherein the radiopaque element is composed of a

biocompatible metallic fiber.

34. (original) The tether of claim 33 wherein the radiopaque element is composed of a

material selected from the group consisting of: nitinol, titanium, titanium-vanadium-aluminum

alloy, cobalt-chromium alloy, cobalt-chromium-molybdenum alloy, cobalt-nickel-chromium-

molybdenum alloy, stainless steel, tantalum, niobium, hafnium, tungsten, gold, silver, platinum,

and iridium metals, alloys, and mixtures thereof.

35. (original) The tether of claim 1 wherein the radiopaque element exhibits an effective

duration in vivo of between about one month and about 5 years.

36. (original) A surgical tether for orthopedic treatment to secure to two adjacent bone

portions, said tether comprising:

a cord having a tensile strength sufficient to maintain a desired distance or orientation of

the two bone portions;

a first sheath substantially encasing the cord, said first sheath comprising a plurality of

fibers and providing an abrasion resistant coating to the cord; and

means for imparting radiolucency to the tether.

37. (original) A surgical tether for orthopedic treatment to secure adjacent bone

portions, said tether comprising:

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a cord having a tensile strength sufficient to maintain a desired distance or orientation of

the bone portions;

a first sheath substantially encasing the cord, said first sheath comprising a plurality of

fibers;

a radiopaque filament engaged with either the cord or the first sheath; and

means for attaching the first sheath to the cord to provide an abrasion resistant coating to

the cord.

38. (original) A method for treating an orthopedic defect, said method comprising:

securing a tether to a first bone portion, said tether comprising a cord, a first sheath

substantially encasing the cord, and a radiopaque element, wherein the cord and the first sheath

are free to move longitudinally relative to each other; and

attaching the cord to a second bone portion to secure the first bone portion and the second

bone portion at a desired distance or orientation relative to each other.

39. (original) The method of claim 38 wherein said securing comprises securing the

cord to the first bone portion.

40. (original) The method of claim 38 wherein the tether comprises a second sheath.

41. (original) The method of claim 38 wherein the radiopaque element comprises a

radiopaque fiber attached to the second sheath.

42. (previously presented) The method of claim 38 wherein the radiopaque element

comprises a radiopaque fiber attached to either the cord or first sheath.

43. (original) The method of claim 38 wherein the radiopaque element comprises a

radiopaque fiber attached to the cord.

44. (original) The method of claim 38 wherein the radiopaque element comprises a

radiopaque fiber attached to the first sheath.

45. (original) The method of claim 38 comprising positioning the first and second bone

portions into a desired orientation or in close proximity to each other.

46. (original) The method of claim 38 wherein the first and second bone portions are

first and second vertebrae.

47. (original) The method of claim 38 wherein the first and second bone portions each

comprise a long bone.

48. (original) The method of claim 38 wherein the first and second bone portions

comprise an articulating joint.

49. (original) The method of claim 38 wherein the tether is composed of one or more

biodegradable materials.

50. (original) The method of claim 38 wherein the tether is composed of a non-

biodegradable material.

51. (original) The method of claim 38 wherein the cord is composed of a material

different from the first sheath.

52. (original) The method of claim 38 wherein the cord is composed of a material

selected from the group consisting of: polyethylene, ultra high molecular weight polyethylene,

polypropylene, fluoropolymers, polytetrafluoroethylene, polyamides, polyethylene terephthalate,

polyesters, polyaramid, silicon rubbers. polyurethane, polyvinylchloride.

53. (original) The method of claim 38 wherein the first sheath is composed of a material

selected from the group consisting of: polyethylene, ultra high molecular weight polyethylene,

polypropylene, fluoropolymers, polytetrafluoroethylene, polyamides, polyethylene terephthalate,

polyesters, polyaramid, silicon rubbers, polyurethane, polyvinylchloride.

54. (original) The method of claim 38 wherein the radiopaque element is composed of a

biocompatible metal fiber.

55. (previously presented) The method of claim 54 wherein the biocompatible metal

fiber is selected from the group consisting of: nitinol, titanium, titanium-vanadium-aluminum

alloy, cobalt-chromium alloy, cobalt-chromium-molybdenum alloy, cobalt-nickel-chromium-

molybdenum alloy, stainless steel, tantalum, niobium, hafnium, tungsten, gold, silver, platinum,

barium sulfate, and iridium metals, alloys, and mixtures thereof.

56. (previously presented) The method of claim 38 wherein the tether is secured to more

than two bone portions.

57. (original) The method of claim 38 comprising cutting the tether to a desired length.

58. (original) The method of claim 57 comprising heat sealing the cut ends of the tether.

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